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Special Provision for Epoxy Coatings for Steel Reinforcement

January 10, 2003

This special provision was developed by the Bureau of Materials and Physical Research. It requires all producer's of epoxy coated reinforcing steel to be certified by the Concrete Reinforcing Steel Institute's (CRSI) Epoxy Plant Certification Program.

This special provision should be inserted in all contracts using epoxy coated steel reinforcement or dowel bars.

The districts should include the BDE Check Sheet marked with the applicable special provisions for the April 25, 2003 and subsequent lettings. The Project Development and Implementation Section will include the paper copy in the contract.

This special provision will be available on the transfer directory January 10, 2003.

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## **EPOXY COATINGS FOR STEEL REINFORCEMENT (BDE)**

Effective: April 1, 2003

Revise Article 1006.10(b)(2) of the Standard Specifications to read:

“(2) Epoxy Coated Reinforcement Bars. Epoxy coated reinforcement bars shall conform to the requirements of AASHTO M 284M (M 284), except:

- a. The maximum thickness of epoxy coating on spiral reinforcement, coated after fabrication, shall be 0.5 mm (20 mils).
- b. No more than eight of the holidays permitted shall be in any 300 mm (1 ft) of length for continuity of coating.

The epoxy coating applicator shall be certified under the Concrete Reinforcing Steel Institute's (CRSI) Epoxy Plant Certification Program.

The epoxy coater shall provide access for the Engineer at any time during production or shipping. Random bars may be checked at the epoxy coater's facility or the jobsite for coating uniformity, thickness and discontinuity; cracks on the bends; and other damaged areas. Upon request, the coater shall provide samples for testing by the Engineer.

Bars may be sheared or sawn to length after coating, provided end damage to coating does not extend more than 15 mm (1/2 in.) back and the cut end is patched before any visible oxidation appears. Flame cutting will not be permitted.”

Add the following paragraph after the first paragraph of Article 1006.11(b) of the Standard Specifications:

“The epoxy coating applicator shall be certified under the Concrete Reinforcing Steel Institute's (CRSI) Epoxy Plant Certification Program.”